

Name: _____

pa1030: Box multiplication of linear binomials (v2)

Example

Use the box method to multiply $(6x + 3)$ and $(2x + 4)$.

*	$6x$	3	
$2x$	$12x^2$	$6x$	$12x^2 + 6x + 24x + 12$
4	$24x$	12	Combine like terms.
			$12x^2 + 30x + 12$

ANSWER: $12x^2 + 30x + 12$

Question 1

Use the box method to multiply $(6x + 8)$ and $(7x + 2)$.

*	$6x$	8	
$7x$	$42x^2$	$56x$	
2	$12x$	16	

ANSWER: $42x^2 + 68x + 16$

Question 2

Use the box method to multiply $(-6x + 2)$ and $(-5x - 9)$.

*	$-6x$	2
$-5x$	$30x^2$	$-10x$
-9	$54x$	-18

ANSWER: $30x^2 + 44x - 18$

Question 3

Use the box method to multiply $(-4x - 7)$ and $(3x - 9)$.

*	$-4x$	-7
$3x$	$-12x^2$	$-21x$
-9	$36x$	63

ANSWER: $-12x^2 + 15x + 63$